

# Special Notes on Specific Packages

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## OPeNDAP (a.k.a., DODS)

CDAT is automatically built with OPeNDAP (a.k.a., DODS) support on Linux and Mac OS X 10.3.x platforms. You must provide the binaries for the DODS libraries on all other platforms. (Make sure they've been compiled with the same compiler used to build CDAT.) To build with OPeNDAP client support, use the `--with-opensap=/my_dods_dir` command option. (We recommend the use of the `--force` option as well).

If you do not want OPeNDAP support (e.g., for Linux and Mac OS X platforms) add the `--disable-opensap` option to the build command line.

## Gplot

The gplot utility is required to produce postscript files and is distributed within the exsrc directory. It is installed automatically on all supported platforms. However, if it fails, follow the instructions below. The built gplot executable is located in the `<CDAT_INSTALL_DIRECTORY>/bin` directory.

Instructions for building gplot are as follows:

```
cd /exsrc/src
gunzip gplot.tar.gz ; tar xvf gplot.tar
cd gplot
make -f Makefile.your_platform gplot
```

Choose an appropriate Makefile in subdirectory gplot. Modification of the Makefile may be required for finding X11.

You then can install the executable "gplot" anywhere in your execution path. For example:

```
cp -p gplot <CDAT_INSTALL_DIRECTORY>/bin/gplot
```

## SCRIP interpolation

CDAT Version 4 includes support for the SCRIP interpolation package developed at Los Alamos National Laboratory. SCRIP interpolates gridded data, and can be used with nonrectangular grids introduced in CDAT V4.

Because this package is standalone and is written in Fortran 90, it is not built by default.

Note: CDAT has a built-in regridding for rectangular grids. If you need the richer functionality of SCRIP, this package is included in `<CDAT_SRC_DIRECTORY>/exsrc/src` directory. See the SCRIP user guide for installation instructions.

## R Statistical Package

The R statistical package takes an extremely long time to build, but it builds smoothly on Linux and Mac OS X 10.3.x platforms. Because of the time R takes to build, we've decided to remove it from the default build process. To include the R build, add the `--enable-r` command line option:

```
cd <CDAT_SRC_DIRECTORY>/exsrc
./install_script --enable-r
cd ../contrib./Rpy
./install_script <CDAT_INSTALL_DIRECTORY>
```

If you already have R built on your system, and wish to only build the Rpy contrib package, then make sure your LD\_LIBRARY\_PATH includes the path to your R distribution, and then run the following build line command:

```
cd <CDAT_SRC_DIRECTORY>
<CDAT_INSTALL_DIRECTORY>/bin/python install.py --enable-r
```

## Scientific Python

If OPeNDAP (a.k.a., DODS) is enabled, then SP will have DODS support.

## VTK package

The VTK package involves an EXTREMELY long build (about 45mn on some of the fastest Linux/PCs). Therefore, it is not built by default. To include the VTK build, add the CDAT command line option:

```
cd <CDAT_SRC_DIRECTORY>/exsrc
./install_script --enable-vtk
```

For example:

```
cd <CDAT_SRC_DIRECTORY>
./express_install --enable-vtk
```

^ VTK has been tested on RedHat Linux systems only. On some platforms you might need to set your LD\_LIBRARY\_PATH to point to the CDAT installation of Tcl/Tk.

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